

Notice of Allowability

Application No.

10/791,197

Examiner

Anastasia Midkiff

Applicant(s)

KIM ET AL.

Art Unit

2882

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 05 March 2007.
2. ☒ The allowed claim(s) is/are 1 and 3-5.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

ASM *asm*
3/20/07

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David A. Plumley, Reg. No. 37,208, on 20 March 2007.

The application has been amended as follows:

IN THE CLAIMS:

In Claim 1, at Line 5, change "from" to --front--.

Allowable Subject Matter

Claims 1 and 3-5 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to Claim 1, the prior art of record teaches many of the elements of the claimed invention, including a plasma display panel comprising: a first substrate and a second substrate provided with a predetermined gap there between and disposed substantially parallel to each other; a plurality of address electrodes formed on the first substrate; a first dielectric layer formed on a front surface of the first substrate, covering

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the address electrodes; a plurality of barrier ribs mounted on the first dielectric layer with a predetermined height to provide a discharge space; a phosphor layer formed within the discharge space; a plurality of discharge sustain electrodes provided on a front surface of the second substrate facing the first substrate and disposed generally perpendicular to the address electrodes; a second dielectric layer formed on the front surface of the second substrate, covering the discharge sustain electrodes; and a passivation layer coated on the second dielectric layer, comprising MgO and dopant elements Si and Fe, wherein the passivation layer comprises Si in an amount ranging from 50 to 500 ppm.

However, prior art fails to teach or fairly suggest the plasma display panel wherein the amount of Fe provided in the passivation layer is an amount ranging from 15 to 90 ppm, in the manner required by Claim 1.

Claims 3-5 are allowed by virtue of their dependency upon Claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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U.S. Patent Application to Park et al. (US 2004/0131884 A1) regarding the use of Si as a dopant for an MgO passivation layer in a range from 30-500 ppm, but without any use of iron.

Japanese Patent Abstract Publication to Keiji et al. (Publication Number 11-339655) regarding iron oxide added to an MgO passivation layer in a plasma display device, but with a substantially higher range of concentration (no less than 55,000 ppm).

European Patent Application to Aboelfotoh (EP 82102225.8 A2) regarding Group VIII element (including Fe) doping of a MgO layer in a plasma display device, but with a substantially higher range of concentration (no less than 30,000 ppm).


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anastasia Midkiff whose telephone number is 571-272-5053. The examiner can normally be reached on M-F 7-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on 571-272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ASM
3/20/07



EDWARD J. GLICK
SUPERVISORY PATENT EXAMINER